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Henry Higgins Lane
(1878-1965)
Biographical Data

Museum of Natural History, University of Kansas, Lawrence

University of Kansas
Museum of Natural History

EDITOR: E. RAYMOND HALL

Miscellaneous Publication No. 48, pp. 1–8
Published June 30, 1967

Henry Higgins Lane

[Professor Henry Higgins Lane importantly contributed to the Museum of Natural History and after his retirement as Director in 1944 and as Professor of Zoology in 1948 continued to occupy a desk at the Museum until January of 1957. At the Museum, staff members and associates in the two and a half decades just past have been encouraged to file their biographical data as well as bibliographies. In 1952, in response to a request, Professor Lane provided the following text. Phrases in brackets were entered, or checked for accuracy, by Dr. H. Wallace Lane, who read the text in 1966.—Editor.]

PRINTED IN U.S.A.
ALLEN PRESS INC.
LAWRENCE, KANSAS
1967

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Biographical Data

LANE, H(enry). H(iggins).: Born in Bainbridge, Putnam County, Indiana, about forty miles due west of Indianapolis, on February 17, 1878, son of Rev. Edwin Thornton and Jessie Fremont (Darnall) Lane [died on October 8, 1965, at Issaquah, Washington]. When four years old he moved to a farm on which he spent all or a part of each year until the fall of 1899. Starting in the fall of 1886, he attended the ungraded country school for parts of three six-month terms. Upon moving to Crawfordsville, Indiana, in August 1889, he was put through an oral examination by the Superintendent of the city schools and was assigned to the "6th A" grade; he completed 6th A, 7th B and 7th A grades in Crawfordsville, but upon moving to Lebanon, Indiana, in December, 1890,—there being no mid-year promotions in the schools of the latter town—he repeated the 7th A, and the following year took the 8th grade work, and entered high school ("junior" high had not been thought of then) in the fall of 1892. In the summer of 1891, just after finishing the 7th grade, he was one of six boys selected by David K. Goss, the city superintendent of schools in Lebanon, to take a six-weeks course in elementary Latin, and during his 8th grade year, he continued Latin with the 9th grade (high school) class. With this start he was able to finish high school in three years, in May, 1895, with no more summer school work. After graduating from high school—the youngest member of his class and class president during his senior year—he worked in a grocery store from July 1, 1895 to April 1, 1896, for $3.00 per week.

In February, 1896, his father suffered a cerebral hemorrhage, which incapacitated him for several years, so the family moved back to the farm, where they were assured of a living, at least. Since DePauw University, at Greencastle, Indiana, was only 9 miles from the farm, he entered there in the fall of 1896, and finished his undergraduate course in 3 years, graduating in 1899, with the Ph. B. degree, having had exactly one-half of his college course in Latin, which was his major subject, but with 2½ years of biology also. During his senior year in college, departmental clubs were organized for the first time in DePauw and he became the first president of both the Sodalitas Latina and the Biology Club. At DePauw he advanced through the Military Department (analogous to the R.O.T.C.) from private, through sergeant, and 1st lieutenant, to the

captaincy of Company A during his senior year. He was chosen by the University Administration to represent the Military Department with an address on Washington's birthday, Feb. 22, 1899, in Meharry Hall, the university auditorium. At DePauw he was a member of Sigma Chi, a social fraternity, and upon graduation was elected to Phi Beta Kappa, honorary scholastic society.

From the fall of 1899 to June, 1902, he taught Latin and German in the Lebanon, Indiana, high school and during 1901–02, was principal of the school. In June, 1902, he made an extensive tour throughout the East, visiting at Princeton University for a week, and then both Harvard and Yale. It was at Princeton that interest in its natural history museum influenced him to drop Latin and to take up zoology for his life work. Returning to Indiana he resigned his high school position and entered Indiana University at Bloomington, where he received his M. A. Degree in June, 1903, his thesis being on "The Ovarian Structures of the Viviparous Blind Fishes, Lucifuga and Stygicola." At Indiana University his major was zoology under Dr. Carl H. Eigenmann, and his minor was neurology under Dr. Ernest Hiram Lindley. The summer of 1903 he spent at Winona Lake, Indiana, as assistant in embryology at the Indiana University Biological Station. That fall he went to Cornell University on a graduate scholarship, and there had courses under Dr. Simon Henry Gage in embryology, Dr. Benjamin F. Kingsbury in cell physiology, and Dr. John Henry Comstock in entomology, including elements of insect anatomy, insect histology, wing venation, and spiders. Upon receiving an offer from the University of Chicago, he went there in 1904 as a graduate assistant in Zoology, helping with the lab. work in general biology, comparative anatomy, embryology (with Dr. Frank R. Lillie), and a course in vertebrate zoology during the summer quarter of 1904. Before this course was more than one-fourth completed, Tower, who was in charge, went to Mexico and left the course entirely in Lane's hands—lectures, lab and field work. In the summer of 1905, Lane was given the rank of instructor and he gave the course in embryology—a fact that had a determining part in the future of his professional life.

In the fall of 1905 Lane went to Hiram College (Ohio) as professor of Biology—the first with that title in the school's history. On Christmas day, 1905, he was married to Miss Mary Juno Harper [b. Feb. 3, 1881—d. Jan. 16, 1957], of Peoria, Illinois, who had graduated from the University of Chicago the preceding June (1905). The summer of 1906 was spent as an instructor at the Indiana Uni-

versity Biol. Station, Winona Lake, Ind., where he taught elementary zoology. In the fall of 1906, he went to Oklahoma University as head of the newly created department of Zoology and Embryology. He remained there until 1920, meanwhile taking sabbatic leave to attend Princeton University, 1914–15, where he completed the work for, and received the degree of Ph.D. in biology, in June, 1915. The summers of 1907 and 1908 had also been spent at Winona Lake in research and teaching. The summer of 1911 had been spent at the University of Chicago as instructor in two courses, invertebrate and vertebrate zoology. He was professor of biology and Head of that department at Phillips University, Enid, Oklahoma, 1920–22, and then came to the University of Kansas, where he was Head of the department of zoology from 1922 to 1944; professor of zoology, 1944–48; and professor emeritus thereafter. He was Curator of the Museum of Vertebrate Paleontology, 1931–36; Curator of Dyche Museum, 1936–41, and Director of the same, 1941–44. During the years 1932–41, he planned and superintended the reconstruction of the Museum building, from basement floor to roof. In 1927 to 1929, he had drawn the basic plans for Snow Hall, and directed much of the actual construction work. The summer of 1924 was spent in teaching at the University of Southern California, Los Angeles.

He and Mrs. Lane had three children: (1) Edwin Harper, born Nov. 18, 1906, at Norman, Oklahoma; (2) Henry Wallace, born Aug. 31, 1911 at Chicago; and (3) Eleanor Hope, born May 6, 1916 at Norman, Oklahoma. Edwin Harper Lane graduated from the University of Kansas in electrical engineering in 1928, and has been with the Western Electric Company ever since, except for a year off in 1932–33, which he spent in K.U. getting his A.M. degree in physics and mathematics. He married Miss Lorene Elizabeth Virkus, of La Grange, Illinois, July 12, 1930. They had two children: Laurie Anne, born June 26, 1934, and Robert Wallace, born March 26, 1941. Henry Wallace Lane graduated from K.U. in 1933, A.B. with his major in zoology; A.M. in 1935, with his major in bacteriology; and M.D. in 1939. In 1951 he received the M.P.H. (Master of Public Health) degree from Johns Hopkins University. In 1938 he married Miss Mary Jane Whitaker, of Leavenworth, Kansas, who received her A.B. from K.U. in 1934; major, entomology; followed by a year of bacteriology, and a year, 1935–36, of internship as medical technician. They had two sons: Edwin Wallace, born Sept. 20, 1946, at Lawrence, Kansas, and William Robert, born Nov. 20, 1948, in El Dorado, Kansas. Dr. Wallace

until June 30, 1952 was director of public health in Butler and Greenwood counties, Kansas. [Since October 8, 1965, Chief, Division of Local Health Services, Washington State Department of Health, Olympia, Washington.] Eleanor Hope Lane attended K.U. two years and on April 13, 1939, married Roy Richard Jenner, who graduated from K.U. in 1939 with his degree in electrical engineering, and was head of the electrical engineering department of the Beech Aircraft Co., of Wichita, Kansas, since 1940 [since October 8, 1965, with Boeing Corporation, Seattle, Washington]. They have a daughter, Barbara Karen, born on October 10, 1941, in Wichita. [Two other children: Brenda Sue, born on October 17, 1952; Debora Ann, born on March 20, 1954; both born in Wichita, Kansas.]

H. H. Lane held memberships at one time or another in organizations as follows: Indiana Academy of Science; member and later fellow of the American Association for the Advancement of Science; Oklahoma Academy of Science (1st president); Kansas Academy of Science; American Microscopical Society; American Society of Naturalists; American Society of Zoologists; Biological Society of Washington, D.C.; American Museum of Natural History, New York; American Society of Mammalogists (charter member, secretary of the organization meeting, recording secretary for 15 consecutive years); American Society of Herpetologists and Ichthyologists; American Society of Vertebrate Paleontology; die Palaeontologische Gesellschaft von Wien; American Association of University Professors; American Philatelic Society; charter member of the Essay-Proof Society; China Stamp Society; Gamma Alpha (Scientific society of Cornell); Sigma Xi (scientific honor society, University of Chicago); Phi Sigma (biol.) and Sigma Gamma Epsilon (geol.), at K.U. Clubs: University, Old and New, Knife and Fork, Cosmopolitan, all at Lawrence, Kansas; Lions Club, Enid, Okla. (3rd president, and delegate to International Convention, 1922); Kiwanis, Lawrence, Kansas. Member, Disciples of Christ. Republican.

Genera and Species named by H. H. Lane

Protypotherium martini, sp. nov., South American fossil mammal.
Paraphelops rooksensis, gen. et sp. nov., Kansas rhinoceros.
Arkanserpeton arcuatum, gen. et sp. nov., Arkansas stegocephalian.
Petrolacosaurus kansensis, gen. et sp. nov., Kansas pelycosaur.
Podargosaurus hibbardi, gen. et sp. nov., Kansas fossil reptile.

Genera and Species named for H. H. Lane

Philippinoptera lanei Taylor, a Philippine fruit bat.
Pomoxis lanei Hibbard, a fossil sunfish from Kansas.
Lanebatrachus martini Taylor, a fossil salamander.
Procastoroides lanei Hibbard, a fossil beaver from Kansas.

Bibliography and Special Lectures

1. A series (perhaps 15–20) of articles on Indiana birds, published in the Indianapolis News, at intervals during 1900 and 1901. (Intended to stir interest in the wildlife of the State among the people.)
2. *The Little Green Heron*, published in "Birds and Nature" magazine, vol. XI, no. 5, May 1902, illustrated with a full-page colored plate from a color-photograph.
3. *The Ovarian Structures of the Viviparous Blind Fishes, Lucifuga and Stygicola* (Master's thesis), Biological Bulletin, vol. VI, no. 1, pp. 38–54; 8 figures, December, 1903.
4. *On the Ovary and Ova of the Cuban Blind Fishes*: Science, N.S., vol. XXVII, no. 703, pp. 951–952, June 19, 1908.
5. *A Paired Entoplastron in Trionyx and Its Significance*: Proc. Indiana Acad. Sci., 25th Anniv. Meeting, 1909, pp. 1–6, 2 figures. (Contribution no. 5, Dept. of Zool. and Embryology, Univ. of Oklahoma.)
6. *On the Habits and Placentation of Tatu novemcinctum*: Oklahoma Univ. Scientific Studies, Research Bull. no. 1, 1909.
7. *A Suggested Classification of Edentates*: Oklahoma University Scientific Studies, Research Bulletin, no. 2, 1909.
8. *Placentation of an Armadillo*: Science, N.S., vol. XXIX, no. 748, p. 715, Apr. 30, 1909 (Abstract).
9. *Alligator mississippiensis in Oklahoma*: Science, N.S., vol. XXX, no. 782, pp. 923–924, Dec. 24, 1909.
10. *On the Ovary and Ova in Lucifuga and Stygicola*: a chapter pp. 226–231, pls. 27–29, in Eigenmann's *Cave Vertebrates of North America*, Publ. no. 104, Carnegie Institution of Washington, 1909.
11. *A Corrected Classification of the Edentates*: Science, N.S., vol. XXXI, no. 806, pp. 913–914, June 10, 1910.
12. *The Inefficiency of Natural Selection*: Address of the retiring president of the Oklahoma Acad. Sci., 1st Ann. Meeting, Norman, Oklahoma, Nov. 1910.
13. *Insects and Disease*: Address delivered at high school convocations in Holdenville, Wewoka, Perkins, Drumright, and Muskogee, Oklahoma 1910–13.
14. *The Ancestral Form of the Testudinata: An Embryological Study*: read at the 2nd Ann. Meet. Oklahoma Acad. Sci., Nov. 25, 1911; Science, N.S., vol. XXXIII, no. 836, Jan. 6, 1911, p. 40.
15. *Evolution—Fact or Fiction?*: address to the faculty of the Catholic University of Oklahoma, Shawnee, 1912.
16. *Some Disadvantages of the Upright Posture in Man*: address to the Custer County Medical Society, Clinton, Oklahoma, 1913; published as a chapter in *Evolution and Christian Faith*, pp. 91–98 (somewhat abbreviated).
17. *Evolution—Pro and Con*: address given at Lindsay and Bristow, Oklahoma, 1913.
18. *Experimental Evolution*: address delivered at the Episcopal Church Young People's Forum, Norman, Oklahoma, May 14, 1914.
19. *Structure and Function in the Development of the Special Senses in Mammals*: read to a seminar at the Wistar Institute of Anatomy, Philadelphia, Pa., Feb., 1915; Science, N.S., vol. XLIII, no. 1101, pp. 179–180, Feb. 4, 1916.
20. *Structure and Function in the Development of Some of the Special Senses in Mammals*: Univ. of Oklahoma Bull., N.S., no. 110, Univ. Studies No. 7, June 15, 1916 (paper read before the Sigma Xi Club of the Univ. of Oklahoma, Dec. 13, 1915).
21. *Biological Significance of Bones, Teeth and Shells Found in the Caves of Eastern Oklahoma*: read at the 8th Ann. Meet. of the Oklahoma Acad. Sci., Oklahoma City, Dec. 2, 1916; Science, N.S., vol. XLV, no. 1159, p. 272, March 16, 1917.

22. *The Murine Opossum, an Accidental Immigrant in Oklahoma*: read at the 8th Ann. Meet., Oklahoma Acad. Sci., Dec. 2, 1916: Science, N.S., vol. XLV, No. 1159, p. 272, March 16, 1917.
23. *On a Collection of Moths and Butterflies from Costa Rica*: report to the 8th Ann. Meet., Oklahoma Acad. Sci., Dec. 2, 1916; Science, N.S., vol. XLV, no. 1159, p. 272, March 16, 1917.
24. *Heredity and Eugenics*: address to the Men's Dinner Club, Lee-Huckins Hotel, Oklahoma City, 1917.
25. *The Correlation between Structure and Function in the Development of the Special Senses of the White Rat*: A Dissertation presented to the Faculty of Princeton University in Candidacy for the Degree of Doctor of Philosophy. Accepted June, 1915. Published by the University of Oklahoma, 1917.
26. *Mendelism*: address given at high school commencements 1917–24, at Chickasha, Hennessey, and Enid, Oklahoma; Troy and Edgerton, Kansas.
27. *Development of the Urino-genital System in the Human Embryo*: a series of three one-hour lectures to the Pottawatomie County Medical Society, Shawnee, Oklahoma, May, 1917.
28. *Ontogeny versus Phylogeny in the Development of the Sensory Apparatus in Mammalian Embryos*: 37th Ann. Meet., Amer. Soc. Naturalists, Dec. 30, 1919; Science, N.S., vol. LI, no. 1311, p. 170, Feb. 13, 1920.
29. *An Explanation of the Early Development of the Peripheral Nervous System in the Vertebrate Embryo*: read at the 17th Ann. Meet., Soc. Zool., with Sect. F., A.A.A.S., Dec. 30, 1919; Science, N.S., vol. LI, No. 1313, p. 216, Feb. 27, 1920.
30. *The Intrinsic-Extrinsic Mechanism of Heredity and Variation*: 9th Ann. Meet., Oklahoma Acad. Sci., Feb. 12, 1921; also: Occasional Papers from the Biol. Dept., Phillips Univ., No. 1, March 1, 1921; Science, N.S., vol. LIII, no. 1369, p. 293, March 25, 1921.
31. *A Singing Mouse*: report at 3rd Ann. Meet., Amer. Soc. Mamm., May 2, 1921; Science, N.S., vol. LIII, no. 1377, p. 488, May 20, 1921; Journ. Mamm., vol. 2, no. 3, p. 185, Aug. 1921.
32. *Nerve-Endings of the Maculae and Cristae Acusticae*: read at 3rd Ann. Meet., Am. Soc. Mamm., May 3, 1921; Journ. Mamm., vol. 2, no. 3, p. 185, Aug. 1921; Science, N.S., vol. LIII, no. 1377, p. 488, May 20, 1921.
33. *Hornaday, William T.: The Minds and Manners of Wild Animals. A Book of Personal Observations*: Review in Journ. Mamm., vol. 3, no. 3, Aug., 1922, pp. 190–192.
34. *Organic Evolution*: address given by invitation to the Lions' Club, Enid, Oklahoma, March, 1922.
35. *The Innervation of the Tongue*: read at 5th Ann. Meet., Amer. Soc. Mamm., May 15, 1923; Journ. Mamm., vol. 4, no. 3, p. 206, August, 1923.
36. *Parker, G. H.: Smell, Taste, and Allied Senses in the Vertebrates*: A review: Psychological Bull., vol. 20, no. 8, August, 1923, pp. 461–465.
37. *A Mechanism Showing a Remarkable Correlation between Structure and Function in Connection with the Nursing Reflex in the Young Mammal*: Univ. Kansas Sci. Bull., vol. XV, No. 3, pp. 249–253, 1 pl., December, 1924.
38. *The Innervation of the Sensory Cells of the Macula Acustica in the Rat:* Univ. Kansas Sci. Bull., vol. XV, no. 4, pp. 257–261, 1 pl., Dec., 1924.
39. *A New Rhinoceros from Kansas*: Univ. Kansas Sci. Bull., vol. XVII, no. 2, pp. 297–311, 4 pls., Sept., 1927.
40. *A New Protypothere from the Santa Cruz Formation of Patagonia*: read at 7th Ann. Meet., Amer. Soc. Mamm., April 7, 1925; Journ. Mamm., vol. 6, no. 3, p. 213, Aug., 1925; Univ. Kansas Sci. Bull., vol. XVII, no. 3, pp. 313–317, 1 pl., Sept., 1927.
41. *Oklahoma:* a chapter in "*Naturalists' Guide to the Americas,*" pp. 490–502, published by the Ecological Soc. of America, Williams and Wilkins, Baltimore, 1926.

42. *Science and Religion*: read to and published by the Ministerial Alliance of Lawrence, Kansas, 1926.
43. *Biology and Cosmopolitanism*: The Cosmopolitan Student, vol. XVI, no. 2, Nov., 1926, pp. 3–4.
44. *A New Leptictid*: read at 13th Ann. Meet., Am. Soc. Mamm., May 15, 1931; Journ. Mamm., vol. 12, no. 3, p. 338, Aug. 24, 1931.
45. *Religion as Seen by a Biologist*: read by invitation to the State Convocation of Congregational Ministers, Topeka, Kansas, Feb. 16, 1932.
46. *A New Stegocephalian from the Pennsylvanian of Arkansas*: Univ. Kansas Sci. Bull., vol. XX, no. 17, pp. 313–317, 1 pl., May 15, 1932 (Oct. 1, 1932).
47. *Variation in Palaeosyops*: Univ. Kansas Sci. Bull., vol. XX, no. 18, pp. 319–326, 1 table, May 15, 1932 (Oct. 1, 1932).
48. *Evolution of the Human Ear*: Williston Club, Lawrence, 1937, illustrated with several charts (paleontology).
49. *Rhinoceroses*: Kansas Surveys No. 42, Kansas Geol. Survey June 24, 1940.
50. *Prehistoric Horses in Kansas*: Kansas Survs. No. 45, Kansas Geol. Survey, July 15, 1940.
51. *Sea Lizards of Kansas*: Kansas Survs. No. 49, Kansas Geol. Survey, Aug. 20, 1940.
52. *Elephants and Mastodons*: Kansas Survs. No. 52, Kansas Geol. Surv., Sept. 2, 1940.
52A. *Big Fish in Kansas*: Kansas Surveys, No. 54, Nov. 11, 1940; Kansas Geol. Surv. (paleontological).
53. *Survey of the Fossil Vertebrates of Kansas. I. Fishes*: Trans. Kansas Acad. Sci., vol. 47, no. 2, 1944, pp. 129–176, 2 figs. and 7 plates.
54. *New Mid-Pennsylvanian Reptiles from Kansas*: Trans. Kansas Acad. Sci., vol. 47, no. 3, 1945, pp. 381–390, 3 figs.
55. *Survey of the Fossil Vertebrates of Kansas. II. Amphibia*: Trans. Kansas Acad. Sci., vol. 48, no. 3, 1945, pp. 286–316, 7 figures.
56. *Survey of the Fossil Vertebrates of Kansas. III. Reptiles*: Trans. Kansas Acad. Sci., vol. 49, no. 3, 1946, pp. 289–332, 7 figures.
57. *Survey of the Fossil Vertebrates of Kansas. IV. Birds*: Trans. Kansas Acad. Sci., vol. 49, no. 4, 1947, pp. 390–400, 1 fig.
58. *Survey of the Fossil Vertebrates of Kansas. V. Mammalia, Part 1*: Trans. Kansas Acad. Sci., vol. 50, no. 2, 1947, pp. 130–163, 5 figs.
59. *Survey of the Fossil Vertebrates of Kansas. V. Mammals, Part 2*: Trans. Kansas Acad. Sci., vol. 50, no. 3 and 4, 1947, pp. 273–314, 9 figures.
60. *Survey of the Fossil Vertebrates of Kansas. V. Mammals, Part 3*: Trans. Kansas Acad. Sci., vol. 51, no. 1, 1948, pp. 29–76, 15 figures.

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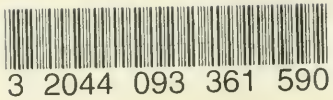
61. *Evolution and Christian Faith*: Princeton University Press, 1923, 214 pages.
62. *Animal Biology*: P. Blakiston's Sons & Co., Philadelphia, 1929, 588 pages, 105 illustrations.
63. *Allgemeine Zoologie*: in prep.; estimated about 300 pages. [Never published.]

Among 36 papers read to Old and New Club, 10 to Williston Club, and various others read to different organizations between 1925 and 1950, the following had more or less of a scientific significance:

64. *Teleology versus Chance in the Animal World*: Congregational Church Forum, Salina, Kansas, 1929.
65. *The Rise and Decline of the Cell Theory*: 1923.
66. *Should the Teaching of Evolution be Prohibited?* July 1, 1925.
67. *Popular Science*: 1925.
68. *American Scientific Achievement*: address given at a convocation of the Univ. of Southern California, July, 1924.

69. *Transmission of Inheritable Diseases in Man*: State Teachers' Assoc., Topeka, Kansas, Nov. 5, 1926.
70. *Unbidden Guests*: Jan. 12, 1929 (witchcraft, voodoo, etc.).
71. *Some Biological Superstitions*: Nov. 7, 1925.
72. *Your Head—How Did It Get That Way?*: Williston Club, 1926 (Paleontological account of the evolution of the skull).
73. *Science and Religion*: two addresses by invitation read to Phi Sigma, 1926.
74. *The Place of Religion in the Life of a Student*: address to a mass meeting of students and faculty, K.U., 1926.
75. *Has Education Failed to Educate?*: Feb. 2, 1929.
76. *Ancient History* (geological history of Kansas): Nov. 13, 1926.
77. *Evolution of the Fishes from Ostracoderms to Amphibia*: 1942.
78. *The Cradle of the Human Race*: 1928 (paleontological).
79. *The Axial Gradient Theory*: address to the students of the Summer Session, K.U., June 22, 1928.
80. *X-Rays and Their Effect upon the Gene*: 1930.
81. *Zoology at K.U.*: Snow Zoology Club, 1930 (historical).
82. *The History of Embryology*: 1923.
83. *Tolerance*: address to the Oklahoma Alpha Chapter of Phi Beta Kappa, on the 25th ann. of its founding, Norman, Oklahoma, June, 1939.
84. *Holism*: Old & New, 1933.
85. *Twiddling Thumbs*: Geol. Club; Williston Club; 1942 (paleontology).
86. *The Six Laws of Comparative Anatomy*: Williston Club, 1942.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